**PATENT** 

Attorney Docket No.: 50623.00041

## **AMENDMENTS TO THE CLAIMS:**

(Currently amended) A method of coating a stent-medical device, comprising the steps of:

- a) increasing the temperature of the stent-medical device to a temperature greater than ambient temperature;
- b) applying a coating substance onto the stent-medical device after the increasing step; and
- c) maintaining the temperature of the stent-medical device at a temperature greater than ambient temperature during the applying step.
- 2. (Currently amended) The method of Claim 1, wherein the stent medical device is metallic a stent.
- 3. (Withdrawn)
- 4. (Original) The method of Claim 1, wherein the coating substance includes a polymer dissolved in a fluid and optionally an active agent.
- 5. (Currently amended) A method of coating a stent-medical device, comprising the acts of:
  - a) applying a composition including a fluid onto a stent-medical device;
  - b) directing a gas with a temperature greater than ambient temperature onto the stent medical device subsequent to the application of the composition to induce evaporation of at least a portion of the fluid from the composition; and





c) repeating the acts of applying and directing to form multiple layers of the composition on the stent-medical device.

6. (Withdrawn)

7. (Withdrawn)

- (Currently amended) The method of Claim 5 Claim 37, wherein the act of applying comprises spraying the composition onto the stent.
- 9. (Original) The method of Claim 8, wherein the act of spraying is performed at a flow rate of about 0.01 mg/sec to about 1 mg/sec.
- 10. (Original) The method of Claim 8, wherein the act of spraying is performed for a duration of about 0.5 seconds to about 5 seconds.
- 11. (Original) The method of Claim 5, wherein the temperature of the gas is about 25°C to about 200°C.
- 12. (Original) The method of Claim 5, wherein the act of directing is performed for a duration of about \( \) second to about 100 seconds.
- 13. (Previously amended) The method of Claim 5, wherein the act of directing is performed at a flow rate of about 0.01 m³/second to about 1.42 m³/second.
- 14. (Original) The method of Claim 5, wherein the composition includes a polymer dissolved in the fluid and optionally an active agent.
- 15. (Original) The method of Claim 14, wherein the active agent is actinomycin D, paclitaxel, docetaxel, or rapamycin.

3

- 16. (Original) The method of Claim 5, wherein the composition additionally includes a radiopaque element or a radioactive isotope.
- 17. (Previously amended) The method of Claim 5, additionally comprising rotating the stent about the longitudinal axis of the stent.
- 18. (Previously amended) The method of Claim 5, additionally comprising moving the stent in a linear direction along the longitudinal axis of the stent.

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20. (Previously amended) The method of Claim 5, wherein the stent is at least partially expanded during the acts of applying and directing.

- 21. (Previously amended) The method of Claim 5, additionally comprising heating the stent prior to the act of applying the composition, wherein the temperature of the stent is increased to a temperature greater than ambient temperature and is maintained at a temperature greater than ambient temperature as the composition is applied to the stent.
- 22. (Currently amended) A method of coating a stent medical device, comprising the acts of:
  - a) spraying onto a stent medical device a composition including a solvent, a polymer dissolved in the solvent, and optionally an active agent;
  - b) applying a gas with a temperature greater than ambient temperature onto the stent medical device for a duration of about 1 second to about 100 seconds to remove at least a portion of the solvent from the composition; and
  - c) repeating the acts of spraying and applying to form multiple layers of the composition.

23. (Withdrawn)

- 24. (Previously added) The method of Claim 1, wherein the temperature that is maintained during application is about 35°C to about 80°C.
- 25. (Previously added) The method of Claim 1, wherein the coating substance comprises an ethylene vinyl alcohol copolymer or poly-n-butyl methacrylate.
- 26. (Previously added) The method of Claim 5, wherein the act of repeating is performed 2 to \$1 times.
- 27. (Previously added) The method of Claim 5, additionally including waiting for a period of about 0. seconds to about 5 seconds after application of the composition before directing the gas onto the stent.
- 28. (Previously added) The method of Claim 5, wherein the composition comprises a polymer selected from the group consisting of an ethylene vinyl alcohol copolymer and poly-n-butyl methacrylate.
- 29. (Previously added) The method of Claim 5, wherein during the act of applying about 1 microgram of composition per cm<sup>2</sup> of stent surface to about 50 micrograms of composition per cm<sup>2</sup> of stent surface is applied.
- 30. (Previously added) The method of Claim 21, wherein the fluid is selected from the group consisting of dimethylsulfoxide, dimethylformamide, and dimethylacetamide and combinations thereof.
- 31. (Previously added) The method of Claim 21, wherein the temperature that is maintained during application is \$5°C to 80°C.
- 32. (Previously added) The method of Claim 22, wherein the polymer comprises an ethylene vinyl alcohol copolymer or poly-n-butyl methacrylate.

33. (Previously added) The method of Claim 22, additionally including waiting for a period of about 0.1 seconds to about 5 seconds after spraying of the composition before applying the gas onto the stent.

- 34. (Previously added) The method of Claim 22, wherein the solvent is selected from the group consisting of cyclohexanone, ethyl acetate, chloroform and methanol.
- 35. (Currently amended) A method of coating a stent, comprising the steps of:
  - a) adjusting the temperature of the stent to a temperature other than ambient temperature;
  - b) applying a coating substance onto the stent after the adjusting step; and
  - c) maintaining the temperature of the stent at a temperature other than ambient temperature during the applying step.
- 36. (New) The method of Claim 2 wherein the stent is metallic.
- 37. (New) The method of Claim 5 wherein the medical device is a stent.
- 38. (New) The method of Claim 37 wherein the stent is metallic.
- 39. (New) The method of Claim 22 wherein the medical device is a stent.
- 40. (New) The method of Claim 39 wherein the stent is metallic.
- 41. (New) A method of coating a medical device, comprising the steps of:
  - a) increasing the temperature of the medical device to a temperature greater than ambient temperature.
  - b) applying a coating substance onto the medical device after the increasing step wherein the coating substance includes a polymer dissolved in a fluid

PATENT

Attorney Docket No.: 50623.00041

and optionally an active agent and wherein applying comprises spraying the composition onto the medical device; and

maintaining the temperature of the medical device at a temperature greater than ambient temperature during the applying step.

42. (New) A method of coating a stent comprising the steps of:

- a) increasing the temperature of the stent to a temperature greater than ambient temperature;
- b) applying a coating substance onto the stent after the increasing step wherein the coating substance includes a polymer dissolved in a fluid and optionally an active agent and wherein applying comprises spraying the composition onto the stent; and
- c) maintaining the temperature of the stent at a temperature greater than ambient temperature during the applying step.
- 43. (New) A method of coating a medical device, comprising the steps of:
  - a) increasing the temperature of the medical device\_to a temperature greater than ambient temperature;
  - b) applying a coating substance including a fluid onto the medical device after the increasing step;
  - c) directing a gas with a temperature greater than ambient temperature onto the medical device subsequent to the application of the composition to induce evaporation of at least a portion of the fluid from the composition; and
  - d) maintaining the temperature of the medical device at a temperature greater than ambient temperature during the applying step; and

e) repeating the acts of applying and directing to form multiple layers of the composition on the medical device.

- 44. (New) A method of coating a medical device, comprising the steps of:
  - a) increasing the temperature of the medical device to a temperature greater than ambient temperature;
  - b) spraying a coating substance onto the medical device after the increasing step wherein the composition includes a solvent, a polymer dissolved in the solvent, and optionally an active agent; and
  - c) applying a gas with a temperature greater than ambient temperature onto the medical device for a duration of about 1 second to about 100 seconds to remove at least a portion of the solvent from the composition
  - d) maintaining the temperature of the medical device at a temperature greater than ambient temperature during the applying step; and
  - e) repeating the acts of spraying and applying to form multiple layers of the composition.